CLIPPEDIMAGE= JP361193745A

PAT-NO: JP361193745A

DOCUMENT-IDENTIFIER: JP 61193745 A

TITLE: PRODUCTION OF DIFFERENT PHASE COMPOSITE METALLIC BODY

PUBN-DATE: August 28, 1986

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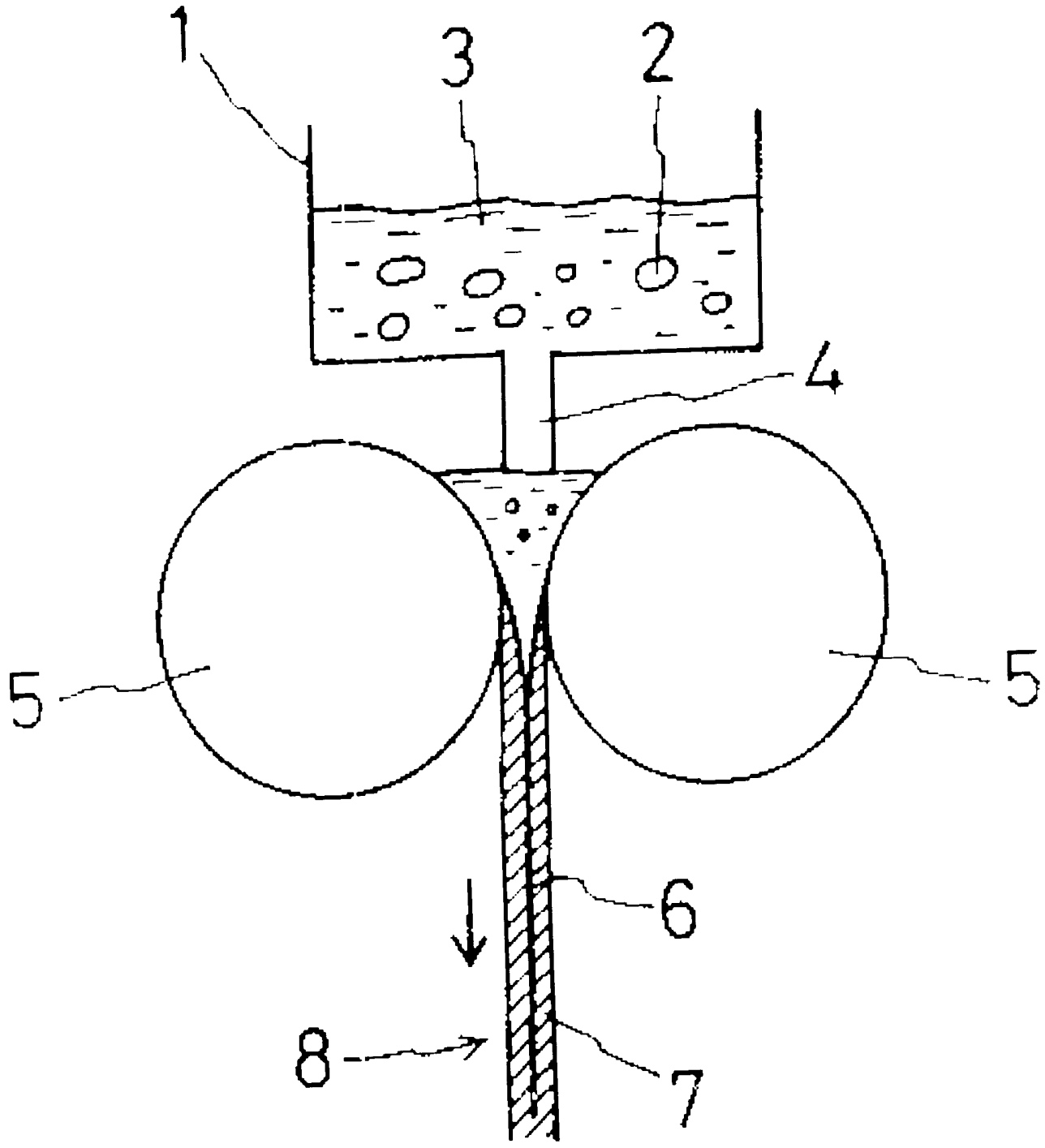
INT-CL (IPC): B22D011/06;B22D019/16

US-CL-CURRENT: 164/480,164/900

ABSTRACT:

PURPOSE: To obtain a different phase composite metallic body having the compsn. different in the surface part and central part by supplying a molten metal maintained in a solid-liquid co-existing state to rolls or belts, etc. under rotation and solidifying quickly the molten metal at a cooling rate of a specific value or above.

CONSTITUTION: The molten steel is contained in a vessel 1 and the state where solid 2 and liquid 3 co-exist is created. The molten metal is then supplied between cooled with rolls 5, 5 under high-speed rotation from a nozzle 4. The molten steel in the solid-liquid co-existing state is quickly solidified at a cooling rate of ≥10°C/sec to obtain the flat plate-shaped different phase composite metallic body 8 consisting of the central part 6 and the surface layer part 7. The production of the different phase composite metallic body having the excellent wear resistance of the surface by the easy method is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thus made possible.